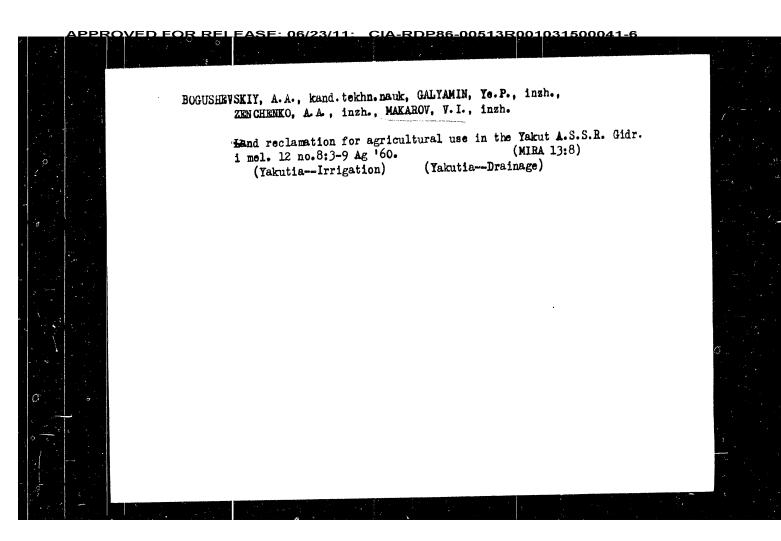
MAKAROV Winding Lungsish, kandidat tekhnicheskikh nauk; FEYNRERE, G.M., inzhener, nauchnyy redaktor; BURMISTROV, G.N., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor [Operator of road machinery] Motorist dorozhnykh mashin. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 351 p. (Road machinery) (MLRA 10:2)

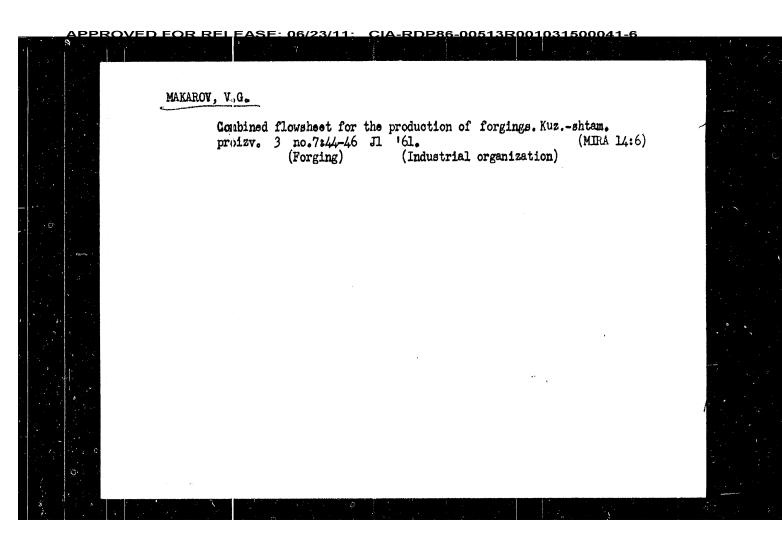


MAKAROV, Vladimir Genadiyevich; ASTASHKEVICHER, Ye.T., ekonomist, retsenzent;
BOCHAROV, G.G., ekonomist, red.; TKACHUN, A.I., red. izd-wa; MODEL',
B.I., tekhm. red.

[Accounting theory; accounting principles in industry] Teoriia
bukhgalterskogo uchata; osnovy teorii bukhgalterskogo uchata v
promyshlemnosti. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1960. 159 p.

(Accounting)

(MIRA 14:9)



MAKAROV, V.G.

Perging of duralumin pistons. Kuz.-shtam. proizv. 3 no.1:47-48
Js. '61. (Forging) (Duralumin)

MAKAROV, V.G.; FINKEL', S.M.; SHESTAKOV, K.T.; STARCHAKOVA, I.I., red.; KISKLEVA, A.A., tekhn.red.

[Accounting in state commerce] Bukhgalterskii uchet v gosuderstvennoi torgovle. Moskva, Gos.izd-vo torg.lit-ry, 1960.

252 p. (Accounting)

(Accounting)

VASILANEV, YEAR, WARRION, W.O.; PORTION, Le.D.

Rethern of connectivity ishiratory algebra and squipting of polystryles. Technic to a 1,500 Me. (Alla 15.5)

T. Reshot his tensial buy lassitur i institut khimii politarov and tensial.

(Lakersteria. Equipment and supplied)

(Polystryless)

FROLOV, 1.A.; MAKAROV, V.G., elektromekhanik

Magnetic recording head polishing device. Avtom., telem. i sviaz' 2
no.3:23-24 Mr '58.

1.Starshiy elektromekhanik Moskovskoy distantsii signalizatsii i svyazi
Moskovsko-Kursko-Donbasskoy dorogi (for Frolov).

(Nagnetic recorders and recording)

MAKAROV, 7.G.; RUDENCHIK, A.A.

| Ranged work teams for track sections, Put' i put. khoz. no.7: | 18-19 Jl '57. (MIRA 10:8)

| I. Nachal'nik Vspol'inskoy distantsii, stantsiya Vspol'ye (for | sakarov). 2, Zamestitel' nachal'nika Vspol'inskoy distantsii, st. | Vspol'ye (for Rudenchik). (Railroads--Management)

MAKAROV, V. G., Cand Agr Sci -- "Socialist agriculture trans
[Cornection of the Komi ASSR far north.) (Cattle breeding,

reindeer breeding, and wild-animal breeding on Izma)."

Mos, 1961. (All-Union Agr Inst of Correspond Ed) (KL, 8-61,

254)

KOMLEV, G.A.; KLEANDROV, T.N.; CHAKHOTIN, V.S.; UDALOV, L.K.; MAKAROV, V.F. Reducing losses of metal in the processing of mercury ores in rotary tube furnaces. Izv.AN Uz.SSR.Ser.tekh.nauk 8 no.4:66-69 164. (MIRA 1884) 1. Sredneaziatskiy filial Gosudarstvennogo nauchno-issledovatel'skogo instituta tavetnykh metallov.

APPROVED FOR REL FASE: 06/23/11: CIA-RDP86-00513R001031500041-6

ACC NR: AT6036427

finding was that the rate of exoelectron emission from the surface of a metal is influenced by and commensurate with the degree of the metal's previous cold deformation. Thus the counting rate for specimens of sheet aluminum deformed 50% is roughly four times as high (20 pulses/sec) as the counting rate for specimens deformed 10% (~5 pulses/sec). It is thus clear that the exoelectron emission method represents a major new technique of metallographic in estigation. Orig. art. has: Il figures.

SUB CODE: // SUBM DATE: nono/ORIG REF: 001/OTH REF: 002

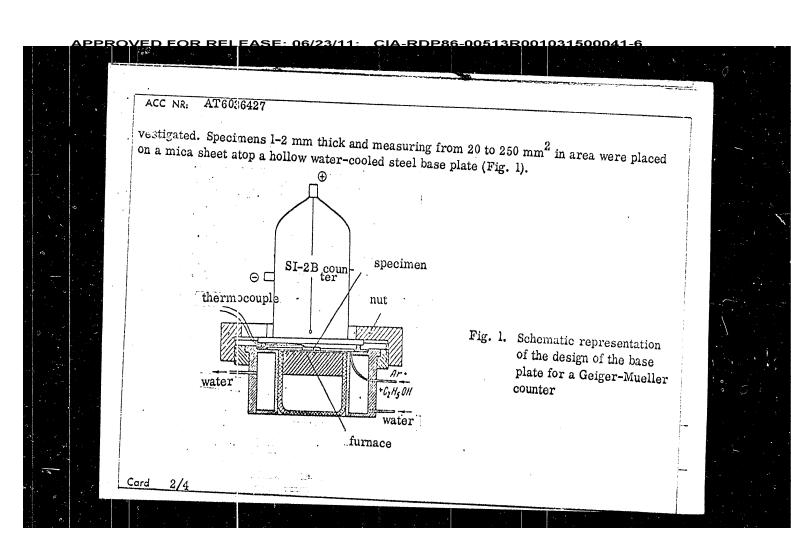
Card 4/4

<u> APPROVED FOR RELEASE: 06/23/11: _CIA-RDP86-00513R001031500041-6</u>

ACC NR. AT6036427

The investigation was performed with the aid of a setup specially designed and constructed in the Moscow Institute of Aviation Technology and consisting of a SI-2B gas-discharge counter, a PS-10000 scalar, an ISS-3 counting rate meter, a tank for the preparation of the quenching mixture and a KhA thermocouple for measuring the specimen's temperature. The setup is equipped with a furnace for heating specimens to a temperature of 300°C. Findings: with heating of the sessimen the number of pulses monotonically increased. On slow cooling of the specimen an emission peak corresponding to the crystallization temperature was recorded. In general, the very presence of an emission peak makes it possible to determine the temperature of phase transformations. With respect to Sn alloys the emission peaks at the instants of phase transformation were 22, 32 and 42 pulses/sec, respectively, which is in good agreement with theory (constitution diagram of Sn-Pb) and the experimental findings of Futschik et al. (Z. Physik, H. 145, Nr. 48, 1956). New experimental findings were obtained on the exoelectron emission of alloys af the Al-Zn system. In particular, the investigation of exoelectron emission in the presence of solid-state transformations of alloys with 8 and 15%Zn established complete correspondence between the position of emission peaks on the temperature axis with the line of limited solubility of Zn in Al in solid state. Further, it is established that the magnitude of the emission peak is independent of the thermal effects of the transformations. Hence the excelectron emission method serves equally well to determine both the transformations from liquid to solid state and from solid to liquid state. Another new

Card 3/4



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500041-6

ACC NR. AT6036427

SOURCE CODE: UR/2536/66/000/066/0174/0182

AUTHOR: Rostovtsev, G. N. (Candidate of technical sciences); Makarov, V. D. (Engineer)

ORG: none

TITLE: Investigation of phase and structural transformations in metals and alloys with the aid of excelectron emission

SOURCE: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 66, 1966. Struktura i svoystva aviatsionnykh staley i splavov (Structure and properties of aircraft steels and alloys), 174-182

TOPIC TAGS: A gas discharge counter, scaler, count rate meter, exoelectron emission, electron emission, metal surface, tin, aluminum base alloy, phase composition / SI-2B gas discharge counter, PS-1000 scaler, ISS-3 count rate meter

ABSTRACT: The purpose of this project was to develop methods of investigating phase and structural transformations by means of excelectron emission on using modern electronic apparatus. Tin, alloys of tin with lead (14, 38.1 and 94% Pb), alloys of aluminum with zinc (8 and 15% Zn), and sheet aluminum subjected to various degrees of deformation were thus in-

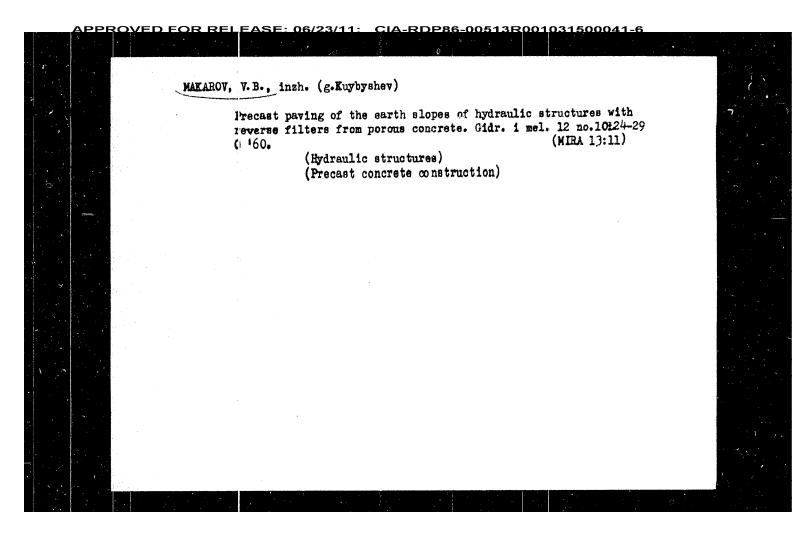
Cord 1/4

UDC: 669.017:620.18

MAKAROV, V.D. Characteristics of mining the lower levels of the Verkhniy 2gid deposit. Gor. zhur. no.4:27-29 Ap '65. (MIRA 18:5) 1. Glavnyy inzh. Sadonskogo rudoupravleniya.

MAKAROV, V.D. More productive variants in the system of working thin veins with skrinkage stoping with backfill. Gor. zhur. no.5:29-31 My '63. (MIRA 16:5) 1. Glavnyy inzh. Sadonskogo rudoupravleniya.
(Sadon region---Mining engineering)

AKIF'YEV, A.P.; MAKAROV, V.B.; POLUNOVSKIY, V.A.; YURCHENKO, V.V. Study of chemical mutagenesis in a transplanted college of L-cells. Genetika no.3:19-26 S 165. (MIRA 18:12) 1. 2-y Moskovskiy meditsinskiy institut. Submitted June 12, 1965.



KOLOTYRKIN, Ya.M.; MAKAROV, V.A.; KUZUB, V.S.; TSIRMAN, A.I.; KUZUB, L.G.

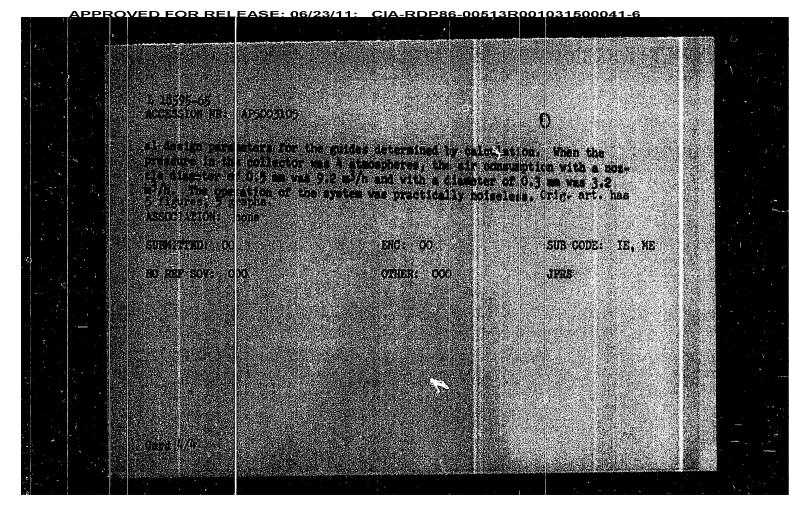
Anudic protection of heat exchangers made of IKhleN9T steel in concentrated sulfuric acid at temperatures of 100 - 120°. Zeabach. met. 1 no.5:598-600 S-0 '65.

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni L.Ma.Karpova, Moskva.

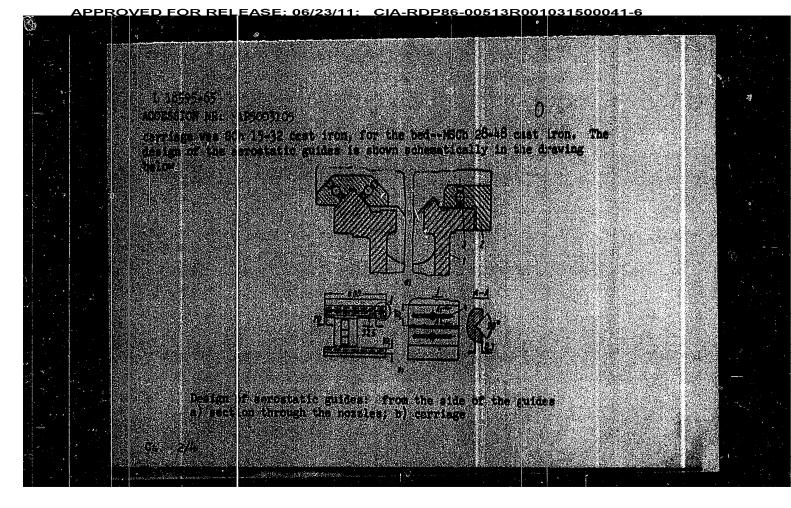
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	sticle size produces no incresse in attength. As shown in I	
	vever, the strength of a welded spot is less when coarse now	iora (la company)
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	review 190 - 2004 is dismoser. The speciment ware also	
	inpublies. As shown in Tig. 3 of the Enclosure, the present	
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	ensionard the cordar should be no light than 150 - 20) infor-	
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KOUROFF Syanud	ng of metals using solid finely divided particles of the project o	
albantinin 6456 41	weiding, spot welding, metal treatment, me y aluminum welding, copper weiding article presents the results of investigations	nonserving the development
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Drillet three in the body of the carriage 2 are all channels through which all is fee to mories 3: From the aprimum of the mories, the air gas into potent 4 wish is such in the form of a grecover along the exist of the gaine. This event morth of the form of a grecover along the exist of the gaine. This event morth of the gaine and the gaine of the gaine. The present into the gap perfect exercise 2 and the limit the LAT-255 breas for is 15 present into the specture in the carriage and straped flush with the aurence of the gaine. The height of buyancy was measured then a refer to the secure and three points for sampulae, a taken as the height of these on relative and three points for sampulae, a taken as the height of burancy. The carriage was loaded by two tuning fork dynamous new sold only even the guides in this gap for both guides was less that a sucrete a carriage in the relative the property of the carriage into an only was 1) for a nozale diameter of 0.2 mm at a pressure in the relative or of a tanopheres, 20 kg, at 3 statespheres, 21 kg (2) for a nozale diameter of a latespheres, 31 kg, at 3 associations of the carriage when it is nozale flusher was 0.2 mm as 9 kg/sirron who if he nozale diameter was 1.2 kg/sirron when it a nozale flusher was 0.2 mm as 9 kg/sirron who it he nozale diameter was 1.2 kg/sirron who it is nozale flusher was 0.2 mm as 11 mm by some rational diameter was 1.3 should be noted that the rigidity of even such parties with a green was 1.2 kg/sirron who it is nozale flusher was 0.2 mm as 1.3 mm are by some rational.



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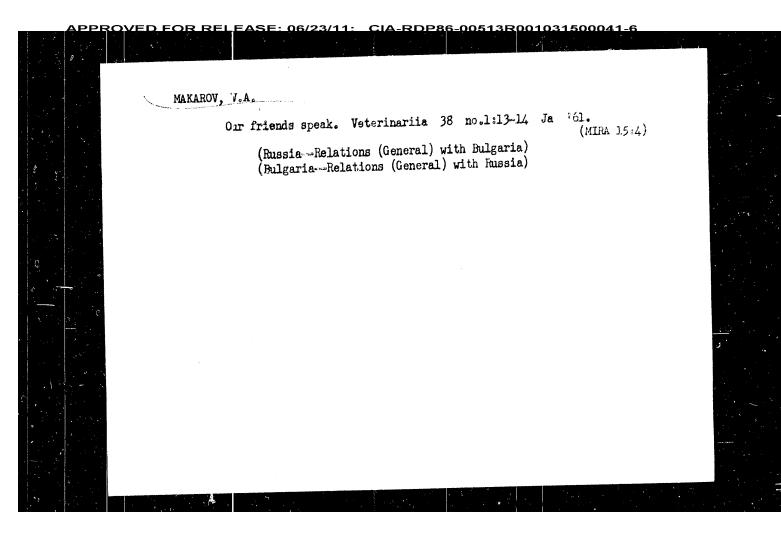
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TOPE AND a characteristic of a contain of a series of

SHTEYNBERG, D.S.; FOMINYKH, V.G.; MAKAROV, V.A. Composition of pyroxenes in the Kachkanar intrusive complex.
Trudy Inst. geol. UFAN SSSR no.70: 57 65. (MIRA 18:12) IPATENKC, N.C.; NESTEROV, T.S., dotsent; KUTILOV, I.N., dotsent; AKOPYAN, Ye.Sh.. kand.veterin.nauk; KARAVAYEV, V.M.; PENIOWZHKO, A.M.; MAKAROV, V.A., essistent.

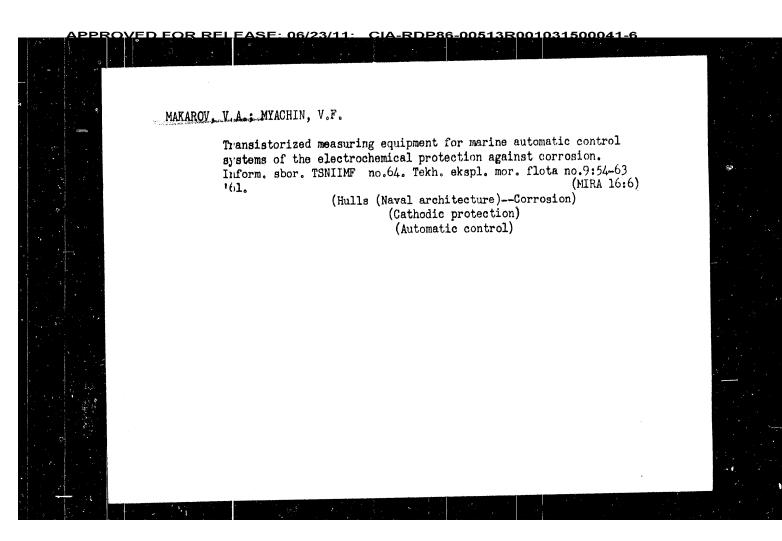
Veterinary sanitation expertise. Veterinariia 41 no.3:83-93 Mr '64. (MIRA 18:1)

1. Uwravleniye tsentra Ministerst a proizvodstwa i zagotovok sal'sko-khozyaystvennykh produktov RSFSR (for Ipatenko). 2. Vitebskiy veterin-ryy institut (for Nesterov, Kutilov). 3. Veseyunnyh anuchme-insiladua-tel'skiy institut vetorinarnoy sanitarii (for Akopyan). 4. Muskovskays veterinarnaya akademiya (for Makarov).



SHVERNIK, Aleksandr Mikhaylovich; SOKOLOV, Anatoliy Valentinovich;
POLUBELOV, Aleksey Sergeyevich; KICELEV, Georgiy Ivanovich;
EERNSHTEYN, Rafail Lazarevich; SLAVUTSKIY, Samuil Oskarovich;
NEVEL SHTEYN, Yuriy Grigor'yevich; KONDATENKK, Laonid
Paglorovich; LASKIN, Anatoliy Arnovich; LIVTY, Zakhar
Solomonovich; MAKAROV, Vladimir Aleksandrovich; NOVOZHILOV,
M.G., retsenzent; FILLICHENKO, N.Ya., retsenzent; VARSHAVEKIY,
A.M., retsenzent; TARTAKOVSKIY, B.N., retsenzent Prinimali
uehastiye: ANTONOV, V.A., inzh.; VERBLYUNSKIY, Yu.I., inzh.;
ZEMSKOV, P.F., otv. red.

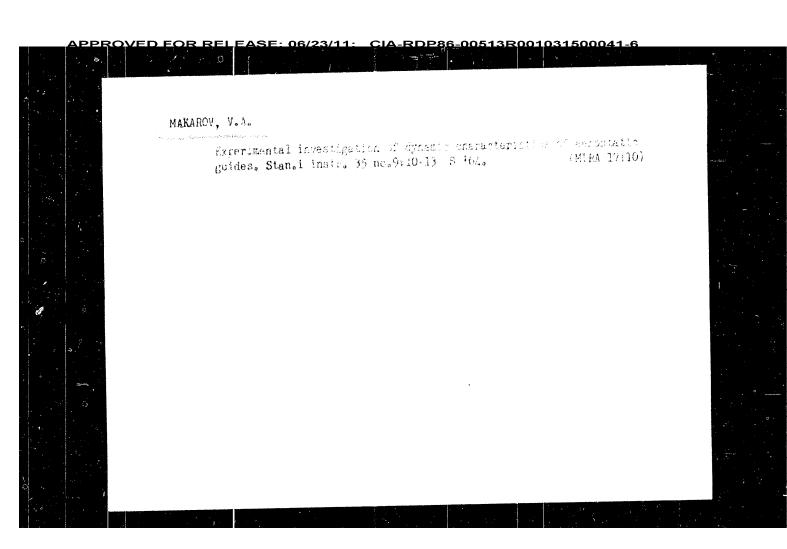
[(verall mechanization and automatic control in strip mines]
Kompleksnala mekhanizatiai a avtomatizatsiia na kar'erakh.
Mcskva, Nedra, 1964. 582 p. (MIRA 18:4)

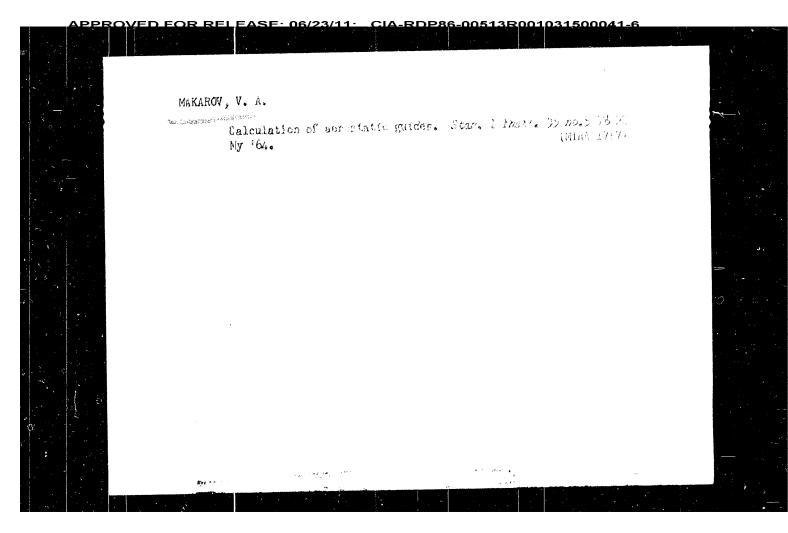


SHAPOSHNIKOV, N.F., insh.; MAKAROV, V.A., insh.

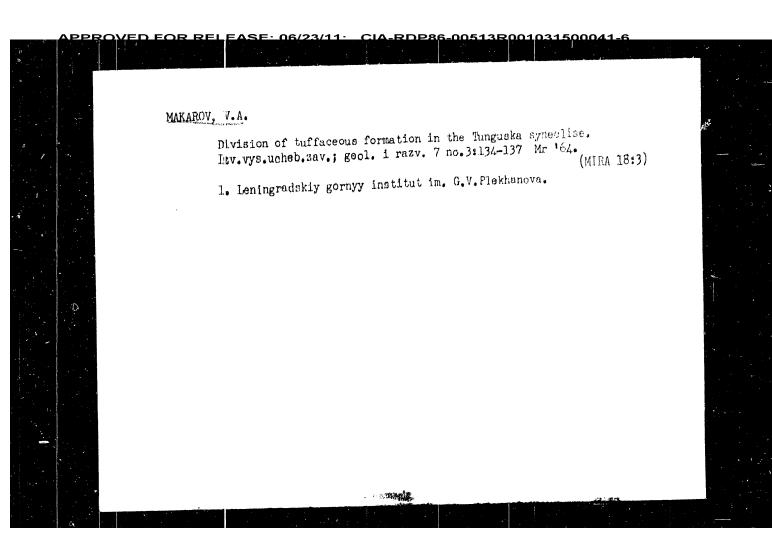
Automation of the continuous flow-line concreting of the
Krasnoyarsk Hydroelectric Power Station. Mekh.stroi. 17
Krasnoyarsk Hydroelectric Power Station)

(Automatic control)





MAKAROV, V.A.; KOTOTORKIN, Va.M.; KNYAZHEVA, V.M.; MAMIH, Ye.P. 3. Nauchno-issied vate I takly figure-Whimleheship instead Amend L. Ya. Karyova, Maskve.



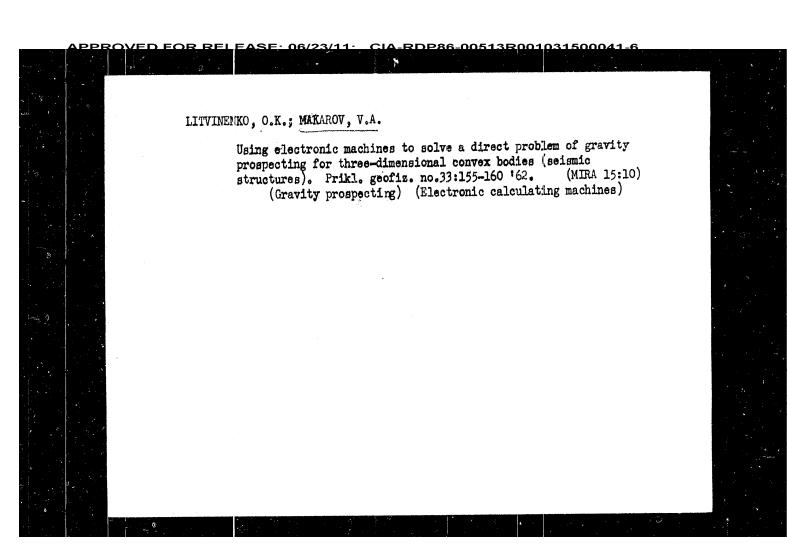
YANCHUK, E.A.; MAKAROV, V.A. Method of making a photometric wedge for measuring the reflective power of minerals. Min. sbor. no.17:207-210 '63. (MIRA 17:207-210) (MIRA 17:11) 1. Gosudarstvennyy universitet imeni Franko, L'vov.

TUROVSKIY, S.D.; MAKAROV, V.A.; NOSYREV, I.V.

Find of ore peobles in Lover Carboniferous conglomerates of the Boordu region (northern Tien Shan). Dokl. AN SSSR 147 no.1:210-211 N'62. (MIRA 15:11)

1. Institut geologii AN Kirgizskoy SSR. Predstavleno akademikom D.S. Korzhinskim.

(Boordu region---Ore deposite)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500041-6

KURANCHEV, M.I., starshiy nauchnyy sotrudnik; MOISEYEV, I.F.;

Forcing cement mixes behind the lining of railroad tunnels without stopping the traffic. Transp.stroi. 10 no.8: 19-22 Ag '60. (MIRA 13:8)

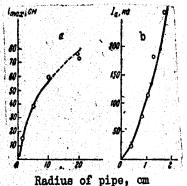
1. TSentral'nyy nauchno-issledovatel'skiy institut transportno150 stroitel'stva (for Kuranchev). 2. Nachal'nik tennel'no160 stovogo otryada No.1 (for Moiseyev). 3. Nachal'nik
160 stopoyezda No.57 (for Makarov).

(Tunnels-Maintenance and repair)

L 23871-66 ACC NR: AP6008 23

equation is solved for various initial and boundary conditions. The calculated results are compared with experimental results of C. Edeleanu and I. Gibson (Cher. Ind., 1961, N. 0, 301) (see Fig. 1).

Fig. 1. Comparison of calculated and experimental data for steel 18-8 in 30% sulfuric acid. a - extint of passive region for the case of partially passivated construction; b - current from the active region of the pipe. Open circles: experimental data taken from reference cited.



It is suggested that the derived expression for the depth of anodic protection should prove useful in the development of methods for the protection of pipelines exposed to the action of corrosive media. Orig. art. has: 5 graphs and 19 equations.

SUB CODE: 07, 13/ SUBM DATE: 19Apr65/ ORIG REF: 007/ OTH REF: 009

Card 2/2 dda

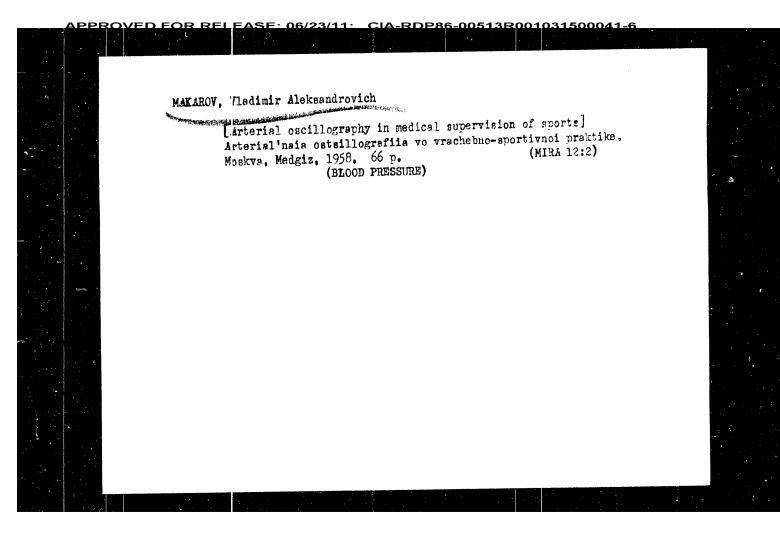
23871-66 EWI (10)/EWA(d)/EWP(t)/EWP(k) IJP(c) JD/WB SOURCE CODE: UR/0365/65/001/006/0662/0669 ACC NR: AP6008123 AUTHORS: Makarov, V. A.; Kolotyrkin, Ya. M.; Knyazheva, V. M.; Mamin, Ye. ORG: Scientific Research Physico-Chemical Institute im. L. Ya. Karpov (Nauchnoissledovatel'sky fiziko-khimicheskiy institut) TITLE: The extint of anode protection of metals from corrosion in corrosive media Zashch ta metallov, v. 1, no. 6, 1965, 662-669 SOURCE: pipeline, steel. TOPIC TAGS: A electrochemistry, corrosion, corrosion protection, corrosion resistant steel/ 18-8 steel ABSTRACT: A theoretical derivation for the depth of anodic protection offered to a metal pipe surface exposed to corrosive media is presented. The derivation is based on the assumption that the anodic polarization curve in the region of the "active loop" may be divided into a finite number of regions, for each of which the currentpotential relationship may be expressed by an equation similar in form to Tafel's equation. It is also assumed that, in passive region, the current density is independent of the potential. The differential equation $\frac{\partial^2 \varphi}{\partial x} - \frac{2\rho}{r} f(\varphi) = 0$ is derived, where $f(\emptyset) = i$, i is the current, \emptyset the potential on the outer surface of the pipe, r is the radius of the pipe, and & the depth of anodic protection. This mc: 620.197.5

MAKAROV, W.A., kand.med.nauk Evaluation of the arterial vascular tonus by the magnitude of the oscillographic index. Klin. med. 40 no.11:157 N.62 (MIRA 16:12) ASKEROV, Ali Aslanovich, kend. med. nauk; KOVALEV, Yefim Ivanovich, kand. med. nauk; MAKAROV, V.A., red.; EASHMAKOV, G.M., tekhn. red.

[Medical control of physical exercises for elderly subjects]
Vrachebnyi kontrol' pri zamiatiiakh fizicheskimi uprazhmeniiani
v starshem vozraste. Moskva, Medgiz, 1962. 180 p.

(EXERCISE THENAPY)

(AGED—CARE AND HYGIENE)



USSR / Human and Animal Physiology. Blood Circulation. T-4

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3422

considerably greater elevation in them after a workload, to a greator build-up of the systolic volume of the heart and a lesser tonus of the small arteries. -- V. V. Rozenblat

Card 3/3

PEROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500041-6

USSR / Human and Animal Physiology. Blood Circulation.

T-4

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3422

After a dosaged exercise (stationary running), the arterial pressure of the fingers rose to an average of 98.4 mm Hg in the trained and to 84.8 mm Hg in the untrained, the capillary blood circulation became more intensive (especially in the trained atheletes). Following a training-exercise, the arterial pressure of the finger rose in the boxers and wrestlers (to an average of 106 - 107 mm Hg in the trained and up to 90 - 91 mm Hg in the untrained) and the number of capillaries in the field of vision increased; in the swimmers, a sinking of the arterial pressure of the finger (down to 65.8 mm Hg in the trained and to 61.1 mm Hg in the untrained) and a spasm of the capillaries was noted, which may be explained by the reflectory effect of the cold water (15 - 230). The author relates the higher values of the arterial pressure of the finger in the trained at rest, and its

Card 2/3

· USSR / Human and Animal Physiology. Blood Circulation.

T-4

Abs Jour

: Ref Zhur - Biologiya, No 1, 1959, No. 3422

Author

: Makarov, V. A.

Inst

: Not given

Title

: Variations of the Blood Circulation in Small Arteries

and Capillaries During Sport Exercises

Orig Pub

: Teoriya i prktika fiz. kultury, 1957, 20, No 4, 281-285

Abstract

: Twenty boxers, 20 wrestlers, and 20 swimmers, ranging in age from 18 - 35 years, were the subject of a study. At rest, arterial pressure readings of the finger, taken by Gaertner's tonometer in combination with the oscillograph of Serkin, were in the average 86.1 mm Hg in trained and 77.3 mm Hg in untrained persons; the capillaroscopic picture of the unguinal skin fold was normal in both groups; the number of capillaries in the linear field of vision amounted to 16 in the average.

Card 1/3

MAKAROV, 7.A.

Asymmetry in the function of the visual analysor during muscular work [with summary in English]. Zhur.vys.nerv.deiat. 7 no.3:359-352 My-Je '57. (MIRA 10:10)

1. Kafedra lachabnoy fizkul'tury u vrachabnogo kontrolya TSentral'-nogo instituta usovershenstvovaniya vrachay.

(EXERCISS, effects, on visual analysor electrical sensitivity threshold in cerebral cortex (Rus))

(GERBRAL CORFER, physicley.

visual analysor electrical sensitivity threshold in exercise (Rus))

MAKAROV, V.A., kandidat meditsinskikh nauk

Rifect of physical stress on arterial tonus in athletes. Sov.med
19 no.6:44-49 Je '55. (MLRA 8:9)

1. Iz kafedry lechebnoy fizkul'tury i vrachebnogo kontrolya
(zav.-prof. V.N. Noshkov) TSentral'nogo instituta usovershenstvovanlya vrachey (dir. V.P. Lebedeva)
(ATHLEREMS, physiology,
eff. of effort on arterial tonus in athletes)
(ARTERIES, physiology,
eff. of effort on tonus in athletes)

(ARTERIES, physiology,
eff. of effort on tonus in athletes)

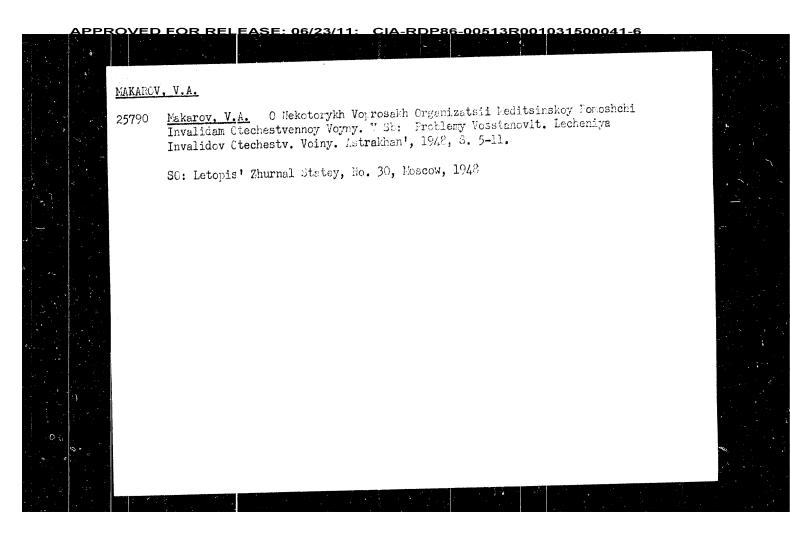
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SEE C.7, 7. 1.

*Supplication of Jertain settings of Sevention in the Lords assails System in Reliabli Practice in Sports Jensellon Colly Section (Verbrange Locker Section, 7 765 pis)

of Physicians, 16 Tels pis. Dissertation (Verbrange Locker Section, 7 765 pis)

30: SEE 186, 19 Aug 195h



VINOGRADO', K.; MAKAROV, V.

Public inspection is mobilizing. Na stroi.Ros. 6 no.2:
(NIRA 19:1)

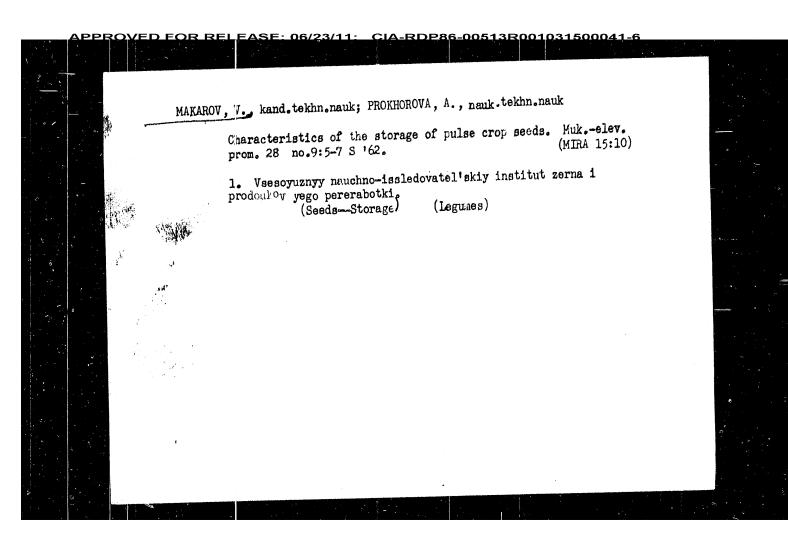
P '65.

1. Zamestitel' nachal'nika tekhnicheskogo upravleniya Glavasgo
upravleniya po stroitel'stva NSFSR (for Vinogradov). 2. Nachal'nik
hinisterstva stroitel'stva RSFSR (for Vinogradov). 2. Nachal'nik
laboratorii kontrolya kachestva Glavasgo upravleniya po stroitel'stva Voslovskom ekonomicheskom rayone Ministerstva stroitel'stva RSFSR (for Makarov).

MAKAROV, V., polkovnik The strength of the press is in party leadership. Komm. Vooruzh. Sil 46 no.6:88-92 Mr '65. (MIRA 18:11) MAKAROV, V., inzhener-podpolkovnik; ALEKSEVERRO, V., inzhener-kapitan

Caseking thermostatz. Tesh. 1 vooruzh. no.4:84 kg '44.

(Mish 19:9)



MAKAROV, V.; PROKHOROVA, A.; PIMANOV, A.

Increasing the volume weight of grain by drying. Muk.-elev. prom. (MIRA 13:9)
26 no.9:12-13 5 '60.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yugo pererabotki (for Nakarov, Prokhorova). 2. Proizvodstevenno-tokhnicheskoye upravleniye Goskhlebkomiteta (for Pimanov).

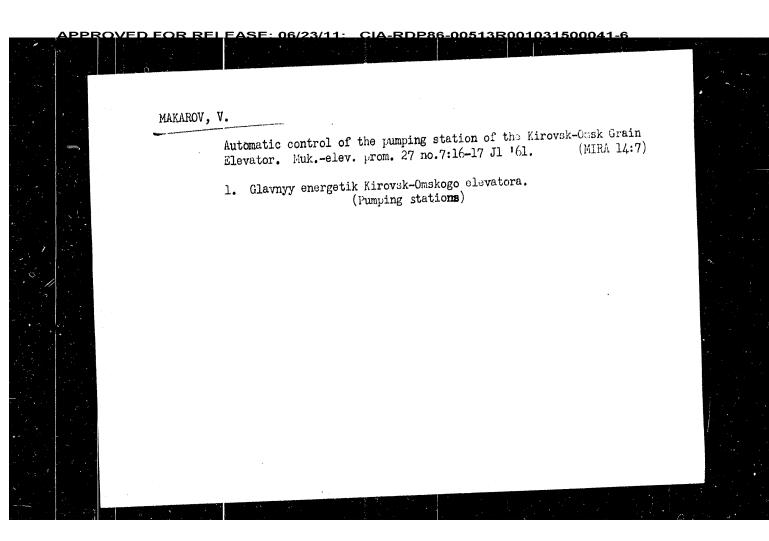
(Grain-- Drying)

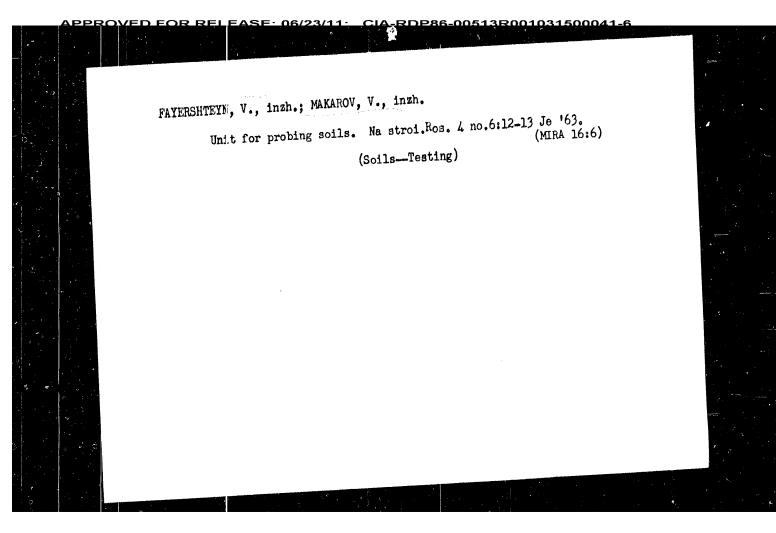
CIA-RDP86-00513R001031500041-6 PROKHOROVA, A., kand. tekhn. nauk; MAKAROV, V., kand. tekhn. nauk; GRUVICH, B., kand. tekhn. nauk; PINENOV, A., agro-khimik Myk.-elev. prom. 25 no.8:18 Ag '59. (MIRA 13:1)

(Wheat--Drying) (Coal) ZHDANOV, S., kand.tekhn.nauk; MAXAROV, V., inzh.; KROTOVA, O., inzh.

Device capable of seeing the invisible. Pozh.delo 9 no.7:22-23 (MRA 16:10)

J1 '63.



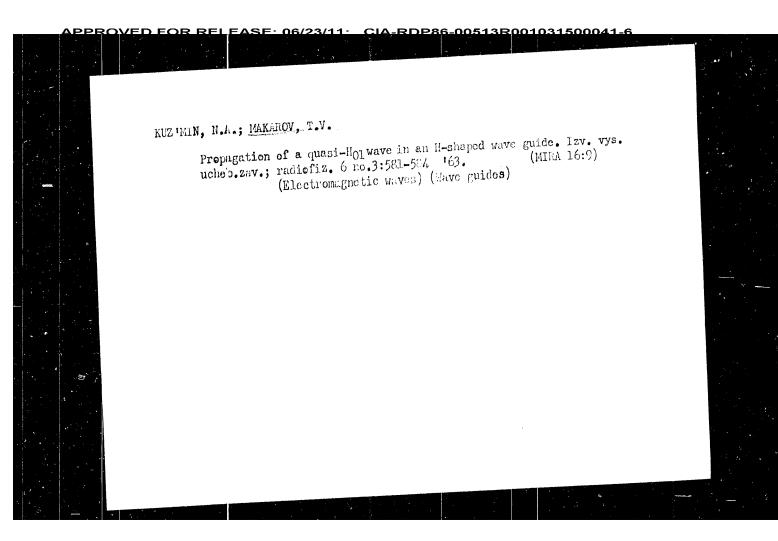


LYUBIMOVA, W.V., doktor ekon, nauk; NOVIKOVA, O.G., kand. ekon, nauk; SEKCEYEVA, A.G., kand. ekon. nauk; IVANOV, N.P., kand. istor. nauk; OBORIMA, G.A., kand. ekon. nauk; KILYNOV, V.N., kand. ekon. nauk; DORIMA, G.A., kand. ekon. nauk; DORIMA, pokatayeva, ekon. nauk; USOV, G.A., kand. ist. nauk; T.3., kand. ekon. nauk; USOV, G.A., kand. ist. nauk; PIROGOVA, I.M.; PRONIN, PESCHANSKIY, V.V., kand. ist. nauk; PIROGOVA, I.M.; PRONIN, PESCHANSKIY, V.V., kand. ist. nauk; PIROGOVA, I.M.; PRONIN, N., mladshiy red.; ULANOVA, L., tekhn. red.

[Real wages during the period of the general crisis of capitulism Real'naia zarabotnaia plata v period obshchego krizisa tulism Real'naia zarabotnaia plata v period obshchego krizisa kupitalizma. Moskva, Sotsekgiz, 1962. 558 p. (MIRA 16:3)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy.

(Nages)



<u>L 17291-63</u>

ACCESSION NIL: AP3004844

5/0141/63/006/003/0581/0584

AUTHOR: Kuz min, N. A.; Makarov, T. V.

TITLE: Propagation of quasi-Ho1 mode in a cross-shaped waveguide

SOURCE: IVUL, Radiofizika, v. 6, no. 3, 1963, 581-584

TOPIC TAGS: cross-sahped waveguide, waveguide, Hot mode

ABSTRACT: This is a continuation of the authors work (Izv. vy*ssh. uch. zav. -Radiofizika, 4, 1089, 1961). The Ritz method is again used to find a second approximation to the eigenvalue and eigen function of a quasi-Hos mode in a sector-cross vaveguide. This data permits determining geometrical parameters of the waveguide which would ensure passing Ho1 mode with a minimum disturbance. Calculated curves serve to determine the optimum, insofar as the "purity" of the Hoi-more field is concerned, cross-section of the waveguide. Orig. art. has: 3 figures and 2 formulas.

Card 1/2

Attenuation of electromagnetic ...

\$/109/62/007/001/011/027 D266/D301

H - transverse wave number, k - wave number in free space, S1 cross-section of the waveguide, L - boundary of S_1 , $\widetilde{\Psi}$ - eigenfunction. Here h, K and T are unperturbed quantities. The eigenfunctions and eigenvalues of a number of H modes in a rectangular cross shaped waveguide are determined by N.A. Kuz'min and T.V. Makarov (Ref. 2: Radiotekhnika i elektronika, 1961, 6, 12, 1989). The author takes the previously derived eigenfunctions, substitutes them into (1), performs the integration and gives numerical results for the quasi- $(H_{01}+H_{10})$ and quasi- $(H_{02}+H_{20})$ modes. The eigenfuncture quasi- $(H_{01}+H_{10})$ tions for a sectoral cross-shaped waveguide are also determined by Kuz'min and Makarov (Ref. 3: Izv. vuzov MVO SSSR (Radiofizika), 1961 6). Substituting again into (1) the author calculates the attenuation for a quasi-H₀₁ wave and concludes that the attenuation of this mode in the cross- shaped waveguide is always larger than that of the H₀₁ mode in a circular waveguide. There are 3 figures and 3

Soviet-bloc references. April 13, 1961 SUBMITTED:

Card 2/2

34033

S/109/62/007/001/011/027 D266/D301

9.1300

AUTHOR:

Makarov, T.V.

TITLE:

Attenuation of electromagnetic waves due to losses in

the walls of cross-shaped waveguides

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 1, 1962,

The purpose of the paper is to calculate the attenuation of certain transverse electric waves in cross-shaped waveguides (both for rectangular and sectoral cross-section). The author starts the analysis by writing up the general formula (derived with the aid of Leontovich boundary conditions) for attenuating H waves in a waveguide of arbitrary cross-section

cross-section
$$\beta = \frac{\tilde{h}^2 \oint_{\widetilde{L}} \left| \frac{\partial \tilde{\psi}}{\partial l} \right|^2 dl + \tilde{\kappa}^4 \oint_{\widetilde{L}} |\tilde{\psi}|^2 dl}{\tilde{k} \tilde{\kappa} \iint_{\widetilde{L}} |\tilde{\psi}|^2 dS_{\perp}}$$
(1)

where w - wave impedance of the metal, \tilde{h} - propagation coefficient, Card 1/2

S/109/61/006/012/005/020 D266/D305

Electromagnetic waves in ...

where a is the width of the waveguide (see Fig. 1). The eigenvalues where a is the wind of the waveguine (see instantions can be seen in resulting from the first and fourth approximations can be seen in Table 1 as a function of $\sigma = b/2a$. If $\sigma \to 1$ this mode agrees with the sum of the Hol and Ho modes in the square waveguide. For this reason the author calls this mode a quasi-(H10 + H01) mode (Fig.1a) In a similar manner the properties of a number of other modes are calculated namely quasi-H₁₁ (Fig. 1b), quasi-(H₂₀ + H₀₂) (Fig. 1c), quasi- $(H_{12} + E_{21})$ (Fig. 1d), quasi- H_{22} (Fig. 1e), quasi- $(H_{30} + H_{03})$ (Fig. 1f), quasi- $(H_{40} - H_{04})$ (Fig. 1g), quasi- E_{11} (Fig. 1h), quasi- $(E_{12} + E_{21})$ (Fig. 1i). It is shown that the eigenvalues of the H_{01} and E_{11} modes are different which suggests the possibility of using a cross-shaped waveguide for the bends of an H_{Ol} transmission system. There are 2 figures, 9 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. SUBMITTED: April 19, 1961

Card 3/0

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500041-6

30430 8/109/61/006/012/005/020 D266/D305

Electromagnetic waves in ...

is minimized. In (1) and (4) ψ and ψ stand for the transverse wave functions of the H and E modes respectively, $\tilde{\mathcal{H}}$ and \mathcal{H} are the respective eigenvalues (cut-off wave numbers) of the above modes. The nth approximation of the wave function is written in the following form:

$$u_{n} = \sum_{i=1}^{n} a_{i} \varphi_{i}$$
 (6)

where the $\phi_{\bf i}$ functions satisfy the boundary conditions and the $a_{\bf i}$ coefficients are chosen to satisfy the equation system

$$\sum_{i=1}^{n} a_{i} \left[\left(\nabla \varphi_{i}, \nabla \varphi_{j} \right) - \left\{ \widetilde{\varkappa} \right\}^{2} \left(\varphi_{i}, \varphi_{j} \right) \right] = 0; \quad j = 1, 2, 3, \ldots, n.$$
 (7)

where the brackets denote scalar multiplication. For the first H mode the trial function is assumed as follows:

$$\widetilde{\psi}_1 = a_1 \sin \frac{\pi x}{2a} - a_2 \sin \frac{\pi y}{2a} + a_3 \sin \frac{3\pi x}{2a} - a_4 \sin \frac{3\pi y}{2a}.$$

Card 2/5

ร/109/61/บ06/012/บ05/020 D2บอ/บ305

9,1300

AUTHORS:

Kuz'min, N.A., and Makarov, T.V.

TITLE:

Electromagnetic waves in rectangular cross-shaped

naveguides

PERIUDICAL:

Radiotekhnika i elektronika, v. o, no. 12, 1961,

1989 - 1997

TEXT: The authors' purpose is to determine the electric and magnetic field configuration for a number of modes in the cross-shaped waveguide. The partial differential equation

 $\Delta \left\{ \begin{array}{c} \widetilde{\psi} \\ \psi \end{array} \right\} + \left\{ \begin{array}{c} \widetilde{\varkappa} \\ \varkappa \end{array} \right\}^2 \left\{ \begin{array}{c} \widetilde{\psi} \\ \psi \end{array} \right\} = 0$ (1)

is solved approximately with the aid of the Raleigh-Ritz method, i.e. the integral

 $\left\{\begin{array}{c} \widetilde{\varkappa} \\ \varkappa \end{array}\right\}^{2} = \iint\limits_{\mathcal{B},L} \left(\begin{array}{c} \nabla \left\{ \begin{array}{c} \widetilde{\psi} \\ \psi \end{array} \right\} \right)^{2} dS_{\perp}.$ (4)

Card 1/# 3

S/141/61/004/006/012/017
Electromagnetic waves ... S/141/61/004/006/012/017
Electromagnetic waves ... El92/E382

ASSOCIATION Tsentral nyy nauchno-issledovatel skiy
Institut svyazı, Moskva (Central Scientific institute of Communications, Moscow)
Research Institute of Communications, Moscow)

April 15, 1961

Card 8/#

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500041-6

33205

Electromagnetic waves

S/141/61/004/006/012/017 E192/E382

$$\Psi_1 = \omega(r, \varphi) \left\{ a_0 + \sum_{n=0}^{\infty} a_{n+1} J_n(2.405r/a) \left[\cos(n\varphi) + \sin(n\varphi) \right] \right\}$$

 $(n = 0, 1, 2, 3, ...)$

where $w(r, \phi)$ is a continuous function having finite and continuous derivatives inside the region S_{1} . The coordinate functions ϕ_{1} are also determined for the quasi- E_{11} waves. The results are illustrated in some graphs and tables from which it is seen that no degeneration takes place between H_{01} and H_{11} waves in a cross-shaped waveguide. It is therefore possible to use such a waveguide for transmitting H_{01} waves in waveguide bends. There are 6 figures, 5 tables and 3 Soviet-bloc references

Card 7/8 8

<u> APPROVED FOR RELEASE; 06/23/11: _CIA-RDP86-00513R001031500041-6</u>

33 225

Electromagnetic waves

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$$\frac{Q_1}{q_1} = \sum_{n} a_n J_{(n)}(1.84 \text{ r/a}) \left[\cos(n\varphi) - \sin(n\varphi)\right] \quad (n = 1.2.3 \text{ and})$$

On the basis of this equation, a set of graphs is constructed for the eigen value $b\tilde{\varkappa}_1$ of the quasi- H_{11} wave as a function of $\mathfrak D$ or $\mu=b/a$ (for various values of μ or $\mathfrak D$). This is shown in Fig. 2. Similar solutions are determined for the quasi- H_{21} and H_{01} waves. With regard to the critical frequency of the principal electric wave (quasi- E_{01}) this is determined by calculating the minimum non-zero eigen value of Eq. (1), subject to the conditions of Eq. (3). It is shown that the coordinate functions in this case are composed of a system of functions consisting of a product of function $\omega(r, \varphi)$ and various combinations of trigonometric and Bessel functions

Card 6/8 8

33225

S/141/61/004/006/012/017 E192/E382

Electromagnetic waves

 ϕ_1 (Ref. 1: S.G. Mikhlin: Direct Methods in Mathematical Physics GITTL, M-L, 1950) should satisfy the boundary condition of Eq. (3). A sequence of functions of ϕ_1 should form a complete linearly-independent system. The coefficients a_1 are chosen by finding the minimum for Eq. (4) under the condition expressed by Eq. (5). First, the magnetic waves are considered and it is pointed out that the eigen value of Eq. (2) for the condition of Eq. (2) for a cylindrical waveguide is given by the first root of the equation $J_1^{\circ}(x)=0$, which is equal to 1.84/a, where a is the internal radius of the cylinder. Two degenerate magnetic waves of the H_{11} type correspond to this eigen value in a circular waveguide. The approximate solution

of Eq. (6) for the quasi-H₁₁ wave in a cross-shaped waveguide

of Fig. la is therefore assumed to be in the form:

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S/141/61/004/006/01/2/017 E192/E382

Electromagnetic waves

under the conditions that:

ions that:
$$\left(\int_{S_{\perp}} \left(\frac{\widetilde{\Psi}}{\Psi} \right)^{2} dS_{\perp} = 1 \right)$$
(5)

where ∇ is the two-dimensional Hamiltonian operator. The eigen values and the eigen functions can be determined by using the Ritz method, according to which the approximate solutions are in the form of a series:

$$\mathbf{u_n} = \sum_{i=1}^{n} \mathbf{a_i} \boldsymbol{\varphi_i} \tag{6}$$

where a are unknown coefficients. The function

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33225

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Electromagnetic waves

$$H_z = \tilde{\kappa}^2 \tilde{\psi}$$
, $E_z = \kappa^2 \psi$

and

$$\left\{ \widetilde{\mathbf{n}} \right\} = \mathbf{k}^2 - \left\{ \widetilde{\mathbf{h}} \right\}^2$$

where $\widehat{\underline{h}}$ and \underline{h} are propagation constants of the magnetic and electric waves, respectively. It is known that the extremum functionals, whose Euler equations are in the form of Eqs. (1), are in the form:

in the form:
$$\begin{pmatrix} \widetilde{\varkappa} \\ \varkappa \end{pmatrix}^2 = \int_{S_{\perp}} \left(\nabla \begin{pmatrix} \widetilde{\Psi} \\ \psi \end{pmatrix} \right)^2 dS_{\perp}$$
(4)

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33 225

Electromagnetic waves

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a) for magnetic waves -

$$\left. \partial \widetilde{\Psi} / \partial \mathbf{n} \right|_{\mathbf{L}} = 0 \tag{2}$$

b) for electric waves -

$$\Psi|_{\mathbf{L}} = 0 \tag{3}$$

These boundary conditions apply on the contour $\ L$ of the transverse cross-section $\ S_{1}$ of the waveguide. The operator

in Eq. (1) is the two-dimensional Laplace operator, and a are eigen values of magnetic and electric waves respectively; n is the external normal to the contour:

The functions $\widehat{\Psi}$ and $\widehat{\psi}$ are the longitudinal components of the magnetic and electric Hertz vectors, which are related to the longitudinal field components by the following equations

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33225

9.1300

S/141/61/004/006/012/017 E192/E382

AUTHORS;

 $Euz^{\, \theta} \, \text{min} \, , \ N_{\, \circ} \, A_{\, \circ} \ \text{ and } Makarov \, , \ T_{\, \circ} \, V_{\, \circ}$

TITLE

Electromagnetic waves in a cross-shaped waveguide

consisting of a number of sectors

PERIODICAL:

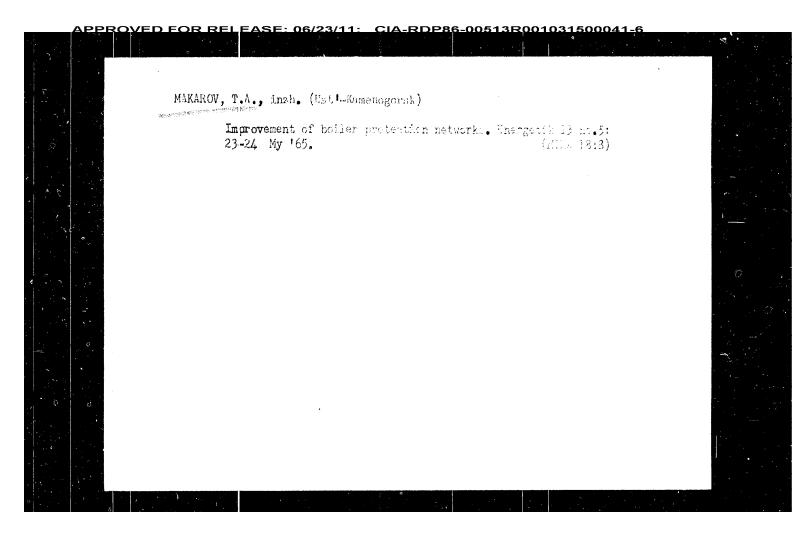
Izvestiya vysshikh uchebnykh zavedeniy, Fadiofizika, v. 4, no. 6, 1089 - 1098 / /96/

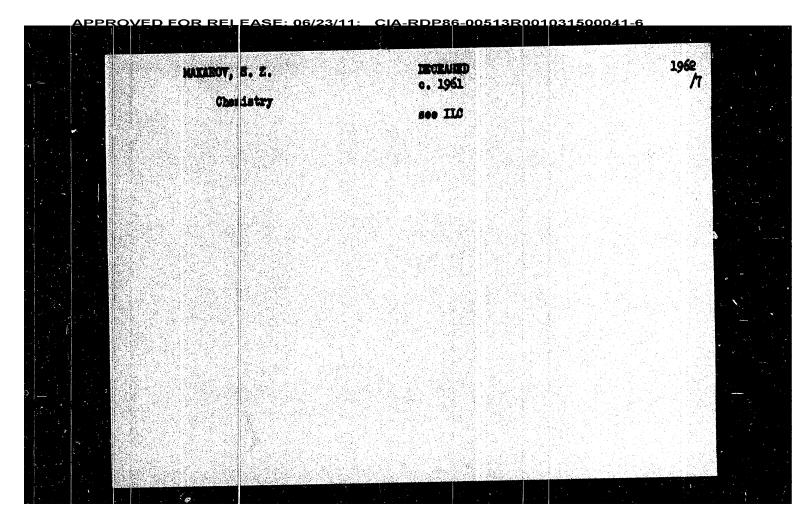
The system considered is illustrated in Fig. la, where the relevant geometrical parameters are indicated, Determination of fields and critical frequencies of the electromagnetic waves of E- and H-types in a regular ideally conducting waveguide (such as shown in Fig. 1) is based on the

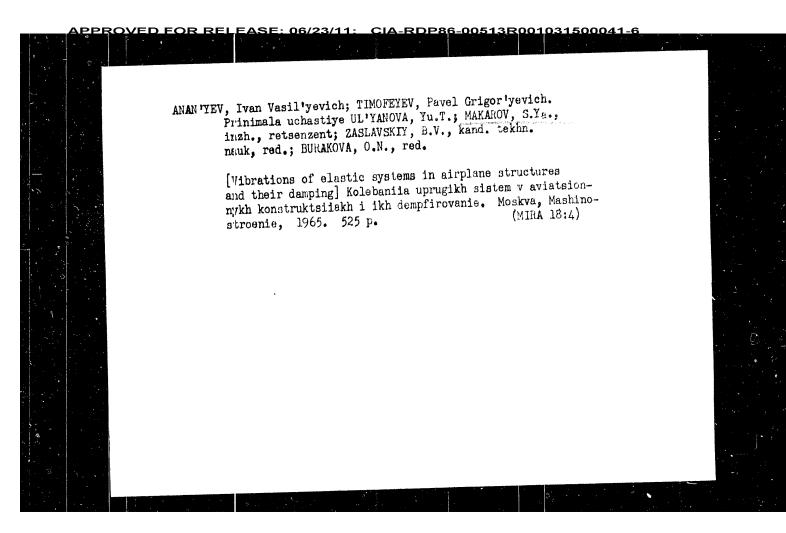
solution of the scalar equations of the type: $\Delta \begin{pmatrix} \widetilde{\psi} \\ \psi \end{pmatrix} + \begin{pmatrix} \widetilde{\kappa} \\ \widetilde{\kappa} \end{pmatrix}^2 \begin{pmatrix} \widetilde{\psi} \\ \psi \end{pmatrix} = 0$ (1)

with the following boundary conditions:

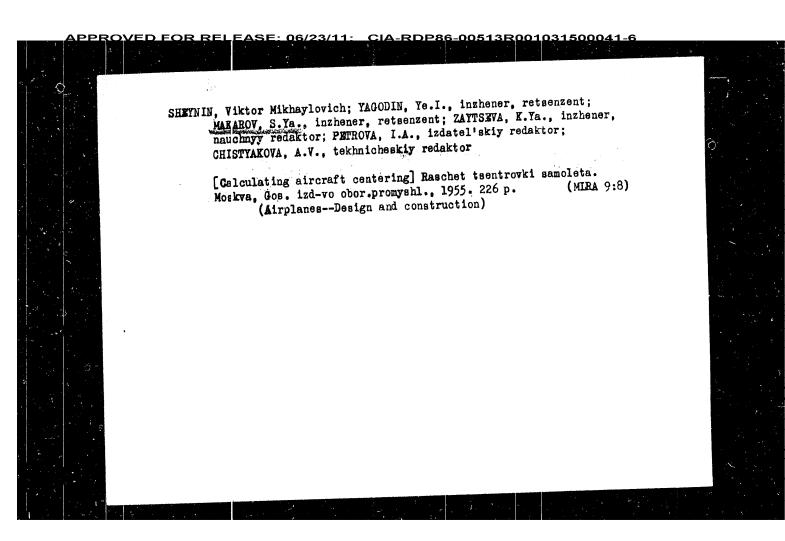
Card 1/4 8







MAKSIMOV, V., podpolkovnik, kand.voyennykh nauk; ORESHCHENKOV, A., kapitan;
MAKAROV, S., starshiy inzhener-leytenant; GOLOVIN, P., inzhenerpodpolkovnik What do you suggest? Av.i kosm. 45 no.8:70-71 '62. (MIRA 15:8)
(Aeronautics, Military)



APPROVED FOR REL FASE: 06/23/11: GIA-RDP86-00513R001031500041-6

Spravochnaya kniga po raschetu samoleta na prochnost' AID 510 - I

Facilities: None
No. of Russian and Slavic References: 14 before 1939, 38 after this date. A number of footnotes are given in parts 4 and 5.

Available: A.I.O., Library of Congress.

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Spravochnaya kniga po raschetu samoleta na prochnost'

AID 510 - I

unknown in the USA methods of calculation. The novelty of it consists of the compilation of methods of strength calculation which otherwise must be looked for in various handbooks, textbooks and technical periodicals.

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MAKAROV, S. Ya.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 510 - I

BOOK

Call No.: AF 641131

Authors: ASTAKHOV, M. F., KARAVAYEV, A. V., MAKAROV, S. Ya., and SUZDAL'TSEV, Ya. Ye.

Full Title: HANDBOOK OF AIRCRAFT STRENGTH CALCULATIONS

Transliterated Title: Spravochnaya kniga po raschetu samoleta na prochnost' PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry (Oborongiz)

Date: 1954 No. pp.: 708 No. of copies: Not given

Editorial Staff: The authors express thanks for help to the following: Shishkin, S. N., Doc. of Tech. Sci., Cheremuzhin, A. M., Prof., Doc. of Tech. Sci., Dubrovin, A. A., Kand. of Tech. Sci., Kurguzov, D. N., Eng., and Belous, A. A.

TEXT DATA

Coverage: This book is concerned exclusively with statics and does not contain problems not yet thoroughly verified in practice. The general character of the composition is entirely subordinated to the needs of engineers who start working in the field of aircraft strength calculations. Wherever it was possible, formulae were reduced through transformations or graphical interpretations to their practical form. Chapters in which new problems are considered contain more details than it should be expected from a handbook. The book contains, especially in parts 4 & 5, a comparatively large number of American and other foreign references, diagrams, graphs, tables, formulae.

On the basis of a general examination it may be stated that the book does not contain

MAKAROV, S. MA.

O priblizhennom opredelenii poletnogo vesa samoleta i ego chastei.
(Tekhnika vozdushnogo flota, 1945, no. 4, p. 8-10, 22, tables.)

Title tr.: Estimate of gross weight of an aircraft and its components.

TL504.Th 1945

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

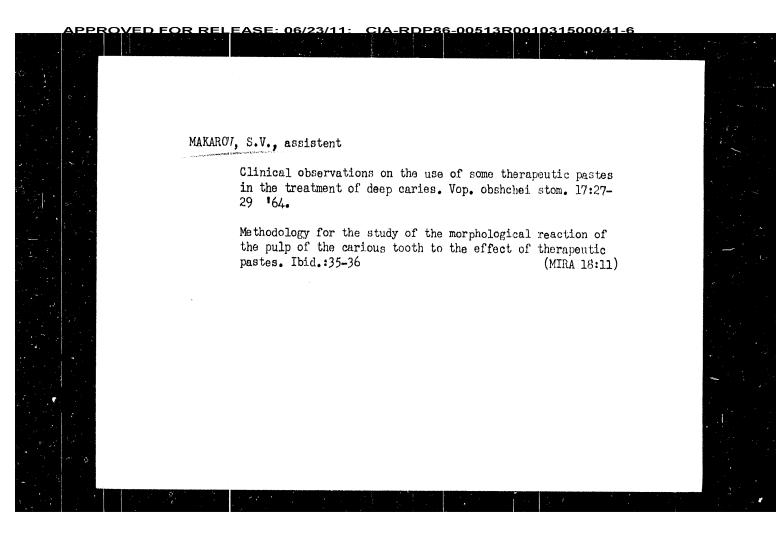
MAKAROV, S. YA.

Mozhno li oblegchit' istrebitel'. (Tekhnika vozdushnogo flota, 1943, no. 3, p. 5-9, tables, diagrs.)

Title tr.: Is it possible to reduce the weight of a fighter?

TL504.T4 1943

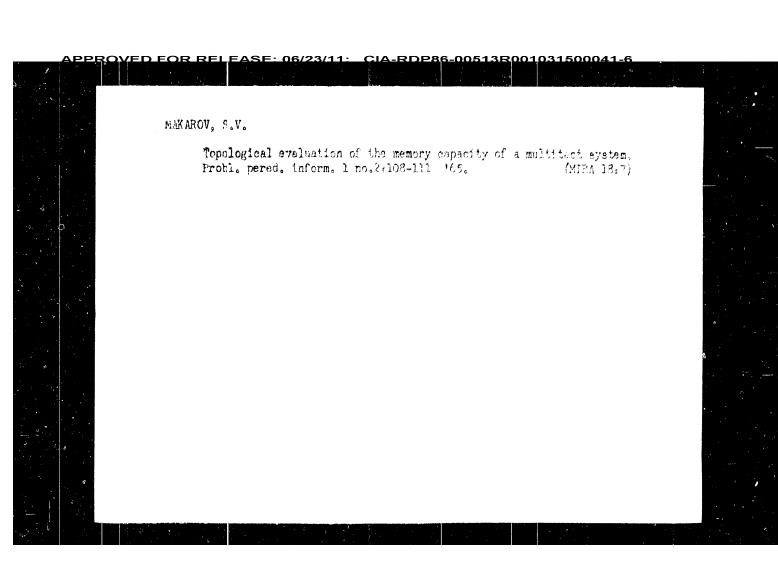
SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.



MAN'KOVSKAYA, N.K.; PONCMARDIKO, I. Ya.; UDOVENKO, S.A.; MAKAROV, S.V.;
KHIJUD, M.L.

Now method for separating and dividing synthetic fatty acids into fractions. Khim. i tekh. topl. i masel 9 no.6:52-57
Je'64 (MINA 17:7)

1. UkrNIIgiproneft' i Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut sinteticheskikh zhirozameniteley.



L 5055-66 ACCESSION NR: AP5024538 0 orthogonal-nonrepetitive forms. However, there exist difficulties connected with the chopping algorithm due to the number of ONF terms contained in a particular Boolean function. To estimate the complexity of such an algorithm the present author calculates the mathematical expectation E of the number of terms M in the ONF version of the original function. Extended calculations presented in this paper lead to the result $E (M) \approx 0.235 \cdot 2^n$ with a relative error not exceeding 0.001. The article concludes with an application of the chopping algorithm to monotonic functions. Orig. art. has: 57 formulas, 3 figures, and 2 tables. ASSOCIATION: none SUB CODE: DP. MA SURMITTED: 18Jan65 ENCL: OTHER: 000 008 NO REF SOV: Card 2/2 Md

L 5055-66 EWT(d)/T IJP(c)

ACCESSION NR: AP5024538

UR/0378/65/000/004/0031/0037 512.932

AUTHOR: Makarov. S. V.

TITLE: Complexity estimate of the chopping algorithm

SOURCE: Kibernetika, no. 4, 1965, 31-37

TOPIC TAGS: cybernetics, finite automaton, Boolean function, algorithm, probability

ABSTRACT: In a study of the structural reliability of finite automatons and of some other continuously acting devices the problem of finding the probability for the transformation of the Boolean function $f(X_1, \ldots, X_n)$ into unity is often encountered. Here all the arguments of the function are random quantities with a known probability distribution. For the solution of this problem the author proposed earlier the so-called "chopping algorithm" (Vychislitel'nyye sistemy, no. 4, Novosibirsk, 1962) which essentially takes the original Boolean function in its orthogonal-conrepetitive form (ONF) and for each term of this form finds the probability of its conversion into unity. Subsequently, these separate probabilities are combined into the solution of the entire problem. The simplicity of all the necessary calculations is determined basically by the properties of the

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MAN'KOVSKAYA, N.K.; UDOVENKO, S.A.; MAKAROV, S.V. Synthetic fatty acids obtained with the method of soap decomposition by carbonic acid. Khim. i tekh. topl. i masel 9 no.1:23-26 Ja 164. (MIRA 17:3)

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